Ariya Sangwongwanich

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	High-Performance Constant Power Generation in Grid-Connected PV Systems. IEEE Transactions on Power Electronics, 2016, 31, 1822-1825.	7.9	208
2	A Comprehensive Review on Supercapacitor Applications and Developments. Energies, 2022, 15, 674.	3.1	161
3	Lifetime Evaluation of Grid-Connected PV Inverters Considering Panel Degradation Rates and Installation Sites. IEEE Transactions on Power Electronics, 2018, 33, 1225-1236.	7.9	152
4	A Sensorless Power Reserve Control Strategy for Two-Stage Grid-Connected PV Systems. IEEE Transactions on Power Electronics, 2017, 32, 8559-8569.	7.9	142
5	Delta Power Control Strategy for Multistring Grid-Connected PV Inverters. IEEE Transactions on Industry Applications, 2017, 53, 3862-3870.	4.9	117
6	Design for Reliability of Power Electronics for Grid-Connected Photovoltaic Systems. CPSS Transactions on Power Electronics and Applications, 2016, 1, 92-103.	4.4	106
7	Mitigation of Interharmonics in PV Systems With Maximum Power Point Tracking Modification. IEEE Transactions on Power Electronics, 2019, 34, 8279-8282.	7.9	101
8	Benchmarking of Constant Power Generation Strategies for Single-Phase Grid-Connected Photovoltaic Systems. IEEE Transactions on Industry Applications, 2018, 54, 447-457.	4.9	96
9	On the Impacts of PV Array Sizing on the Inverter Reliability and Lifetime. IEEE Transactions on Industry Applications, 2018, 54, 3656-3667.	4.9	95
10	An Adaptive Control Scheme for Flexible Power Point Tracking in Photovoltaic Systems. IEEE Transactions on Power Electronics, 2019, 34, 5451-5463.	7.9	93
11	Extended Functionalities of Photovoltaic Systems With Flexible Power Point Tracking: Recent Advances. IEEE Transactions on Power Electronics, 2020, 35, 9342-9356.	7.9	91
12	Analysis and Modeling of Interharmonics From Grid-Connected Photovoltaic Systems. IEEE Transactions on Power Electronics, 2018, 33, 8353-8364.	7.9	83
13	Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters. IEEE Transactions on Industry Applications, 2020, 56, 601-610.	4.9	58
14	Reliability aspects in microgrid design and planning: Status and power electronics-induced challenges. Renewable and Sustainable Energy Reviews, 2022, 159, 112127.	16.4	58
15	Reliability Evaluation of PV Systems with Integrated Battery Energy Storage Systems: DC-Coupled and AC-Coupled Configurations. Electronics (Switzerland), 2019, 8, 1059.	3.1	40
16	Design for Reliability of Power Electronic Systems. , 2018, , 1423-1440.		38
17	Development of flexible active power control strategies for grid-connected photovoltaic inverters by modifying MPPT algorithms. , 2017, , .		37
18	Enhancing PV Inverter Reliability With Battery System Control Strategy. CPSS Transactions on Power Electronics and Applications, 2018, 3, 93-101.	4.4	36

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19	The Impact of PV Panel Positioning and Degradation on the PV Inverter Lifetime and Reliability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3114-3126.	5.4	34
20	Grid-friendly power control for smart photovoltaic systems. Solar Energy, 2020, 210, 115-127.	6.1	32
21	Pursuing Photovoltaic Cost-Effectiveness: Absolute Active Power Control Offers Hope in Single-Phase PV Systems. IEEE Industry Applications Magazine, 2017, 23, 40-49.	0.4	31
22	A cost-effective power ramp-rate control strategy for single-phase two-stage grid-connected photovoltaic systems. , 2016, , .		30
23	An Overview of Photovoltaic Microinverters: Topology, Efficiency, and Reliability. , 2019, , .		28
24	Monte Carlo Simulation With Incremental Damage for Reliability Assessment of Power Electronics. IEEE Transactions on Power Electronics, 2021, 36, 7366-7371.	7.9	27
25	Implementation of fault tolerant control for modular multilevel converter using EtherCAT communication. , 2015, , .		26
26	Lifetime Evaluation of Three-Level Inverters for 1500-V Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4285-4298.	5.4	26
27	Interharmonics from grid-connected PV systems: Mechanism and mitigation. , 2017, , .		23
28	A Phase-Shifting MPPT to Mitigate Interharmonics From Cascaded H-Bridge PV Inverters. IEEE Transactions on Industry Applications, 2021, 57, 3052-3063.	4.9	22
29	Monte Carlo-Based Reliability Estimation Methods for Power Devices in Power Electronics Systems. IEEE Open Journal of Power Electronics, 2021, 2, 523-534.	5.7	20
30	An Analysis of Multi Objective Energy Scheduling in PV-BESS System Under Prediction Uncertainty. IEEE Transactions on Energy Conversion, 2021, 36, 2276-2286.	5.2	19
31	Benchmarking of constant power generation strategies for single-phase grid-connected Photovoltaic systems. , 2016, , .		18
32	Grid Congestion Mitigation and Battery Degradation Minimisation Using Model Predictive Control in PV-Based Microgrid. IEEE Transactions on Energy Conversion, 2021, 36, 1500-1509.	5.2	18
33	Design and Implementation of a Single-Source 17-Level Inverter for a Single-Phase Transformer-Less Grid-Connected Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4469-4485.	5.4	18
34	Neutral Point Voltage Balancing Control Based on Adjusting Application Times of Redundant Vectors for Three-Level NPC Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5604-5613.	5.4	18
35	Performance comparison of phase shifted PWM and sorting method for modular multilevel converters. , 2015, , .		17
36	A Dual-Loop Control to Ensure Fast and Stable Fault-Tolerant Operation of Series Resonant DAB Converters. IEEE Transactions on Power Electronics, 2020, 35, 10994-11012.	7.9	17

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#	Article	IF	CITATIONS
37	Distributed Control of Islanded Series PV-Battery-Hybrid Systems With Low Communication Burden. IEEE Transactions on Power Electronics, 2021, 36, 10199-10213.	7.9	17
38	Sensorless reserved power control strategy for two-stage grid-connected Photovoltaic systems. , 2016, , .		16
39	Low voltage ride-through of two-stage grid-connected photovoltaic systems through the inherent linear power-voltage characteristic. , 2017, , .		15
40	Impacts of PV array sizing on PV inverter lifetime and reliability. , 2017, , .		14
41	Design for Accelerated Testing of DC-Link Capacitors in Photovoltaic Inverters Based on Mission Profiles. IEEE Transactions on Industry Applications, 2021, 57, 741-753.	4.9	14
42	Reliability analysis of battery energy storage system for various stationary applications. Journal of Energy Storage, 2022, 50, 104217.	8.1	14
43	Two-dimension sorting and selection algorithm featuring thermal balancing control for modular multilevel converters. , 2016, , .		12
44	Capacitor Selection Method in PV Interfaced Converter Suitable for Maximum Power Point Tracking. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2136-2146.	5.4	11
45	Delta power control strategy for multi-string grid-connected PV inverters. , 2016, , .		10
46	Capacitor voltage balance performance comparison of MMC-STATCOM using NLC and PS-PWM strategies during negative sequence current injection. , 2016, , .		10
47	Reduced-Order Thermal Modeling for Photovoltaic Inverters Considering Mission Profile Dynamics. IEEE Open Journal of Power Electronics, 2020, 1, 407-419.	5.7	10
48	Incremental Degradation Estimation Method for Online Assessment of Battery Operation Cost. IEEE Transactions on Power Electronics, 2022, 37, 11497-11501.	7.9	10
49	Minimizing the levelized cost of energy in single-phase photovoltaic systems with an absolute active power control. , 2015, , .		9
50	Design for reliability in renewable energy systems. , 2017, , .		8
51	A general algorithm for flexible active power control of photovoltaic systems. , 2018, , .		8
52	A Systematic Approach for Lifetime Evaluation of PV-Battery Systems. , 2019, , .		8
53	Power electronic technologies for PV systems. , 2019, , 15-43.		8
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55	Thermal Performance Evaluation of 1500-VDC Photovoltaic Inverters Under Constant Power Generation Operation. , 2019, , .		7
56	A Phase-Shifting MPPT Method to Mitigate Interharmonics from Cascaded H-Bridge PV Inverters. , 2020, , .		7
57	Flexible Active Power Control of Distributed Photovoltaic Systems With Integrated Battery Using Series Converter Configurations. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6891-6909.	5.4	7
58	Capacitor Voltage Balancing for Multilevel Dual-Active-Bridge DC–DC Converters. IEEE Transactions on Industrial Electronics, 2023, 70, 2566-2575.	7.9	7
59	Lifetime evaluation of PV inverters considering panel degradation rates and installation sites. , 2017, , .		6
60	Mission Profile-based Accelerated Testing of DC-link Capacitors in Photovoltaic Inverters. , 2019, , .		6
61	A Comparative Study of Flexible Power Point Tracking Algorithms in Photovoltaic Systems. , 2019, , .		6
62	Lifetime Evaluation of Power Modules for Three-Level 1500-V Photovoltaic Inverters. , 2020, , .		6
63	Flexible Power Control ofÂPhotovoltaic Systems. , 2018, , 207-229.		5
64	Reliability Assessment of PV Inverters with Battery Systems Considering PV Self-Consumption and Battery Sizing. , 2018, , .		5
65	Lifetime Estimation and Reliability of PV Inverter With Multi-Timescale Thermal Stress Analysis. , 2019, ,		5
66	Interharmonics Reduction in Photovoltaic Systems with Random Sampling MPPT Technique. , 2019, , .		5
67	Enhanced Reliability of 1500-V Photovoltaic Inverters with Junction Temperature Limit Control. , 2021, , .		5
68	A Series Interharmonic Filter for Cascaded H-bridge PV Inverters. , 2020, , .		5
69	Effects of PV Panel and Battery Degradation on PV-Battery System Performance and Economic Profitability. , 2020, , .		4
70	Flexible Power Control of Distributed Grid-Connected Series-Photovoltaic-Battery Systems. , 2021, , .		4
71	Reliability Analysis and Energy Yield of String-Inverter Considering Monofacial and Bifacial Photovoltaic Panels. , 2020, , .		4

72 Monte Carlo Based Reliability Estimation Methods in Power Electronics. , 2020, , .

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#	Article	IF	CITATIONS
73	The Impact of PV array Inclination on the PV Inverter Reliability and Lifetime. , 2020, , .		4
74	Wear-Out Failure Analysis of Solar Optiverter Operating with 60- and 72-Cell Si Crystalline PV Modules. , 2018, , .		3
75	Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters. , 2018, , .		3
76	Flexible active power control of PV systems. , 2019, , 153-185.		3
77	Impact of Power Converters and Battery Lifetime on Return of Investment of Photovoltaic Systems. , 2020, , .		3
78	A Random Sampling-Rate MPPT Method to Mitigate Interharmonics from Cascaded H-Bridge Photovoltaic Inverters. , 2020, , .		3
79	Reliability Assessment of Fault-Tolerant Power Converters including Wear-Out Failure. , 2022, , .		3
80	Photovoltaic module characteristic influence on reliability of micro-inverters. , 2018, , .		2
81	Robustness Evaluation of PV-Battery Sizing Principle Under Mission Profile Variations. , 2020, , .		2
82	Reliability of DC-link Capacitors in Two-Stage Micro-Inverters Under Different PV Module Sizes. , 2019, ,		2
83	Impact of Mission Profile Dynamics on Accuracy of Thermal Stress Modeling in PV Inverters. , 2020, , .		2
84	Double-Carrier-Based PWM Theory for Independent Power Control of Dual-Input Three-level Inverters. , 2022, , .		2
85	Low-Frequency Oscillation Suppression in Series Resonant Dual-Active-Bridge Converters under Fault Tolerant Operation. , 2019, , .		1
86	Advanced power control of photovoltaic systems. , 2021, , 447-469.		1
87	Performance Comparison of PV Inverter Systems Considering System Voltage Ratings and Installation Sites. , 2021, , .		1
88	Online Optimization of Zero-Sequence Voltage Injection of PWM Strategy for 3L-NPC converters. , 2022, , .		1
89	Validation of Thermal Stress Modeling in PV Inverters under Mission Profile Operation. , 2020, , .		0
90	Advancing Grid-Connected Renewable Generation Systems. Applied Sciences (Switzerland), 2021, 11, 3058.	2.5	0

#	Article	IF	CITATIONS
91	Optimization of Reactive Power Distribution in Series PV-Battery-Hybrid Systems. , 2021, , .		0
92	Multi-Converter System Modelling in Cost for Reliability Studies. , 2021, , .		0
93	Long-Term Forecasting Method for Power Electronics-Based System Design. , 2022, , .		0